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## Patent Abstracts of Japan

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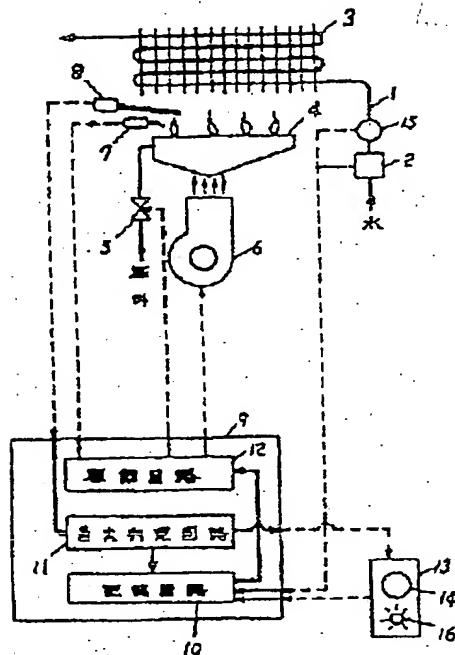
APPLICATION DATE : 24-05-91  
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APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : NAKAJIMA SHINOBU;

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TITLE : IGNITION CONTROLLER FOR  
 BURNER



**ABSTRACT :** PURPOSE: To raise the usability of equipment by setting the ratio of air to fuel at the time of burner ignition in response to the temperature of the water supplied to a heat exchanger and igniting in a small number of ignition by reigniting with a different ratio of air to fuel when the ignition fails and using for the next ignition the new ratio of air to fuel by which the ignition is successful.

**CONSTITUTION:** A memory circuit 10 stores beforehand a ratio of air to fuel which corresponds to the temperature of the supplied water detected by a water temperature sensor 2 and by which the ignition performance of a burner 4 is good. A drive circuit 12 controls a proportional valve 5 and a blower 6 according to the detection signal for the temperature of the supplied water. When the flame of the burner 4 is detected by a flame sensor 8 and the failure of ignition is detected by an ignition judging circuit 11, the memory circuit 10 instructs a next different ratio of air to fuel to improve the ignition performance. And the memory circuit 10 renews the ratio of air to fuel by the ratio of air to fuel in which the ignition succeeds. With this arrangement it is possible to adapt for conditions of installation that are different from the conditions of setting memory data.

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